

Fire Mechanic

Overview	<p>Under supervision of a Battalion Chief, the Fire Mechanic is responsible for:</p> <ul style="list-style-type: none">• Repair and maintenance of diesel and gasoline-powered fire apparatus and equipment.• Execute mechanical repairs and maintenance of hydraulic systems and vehicles.• Assess and determine the nature and extent of necessary repairs based on general, oral, or written work orders.• Provide technical assistance in developing fleet vehicles and equipment specifications.• Coordinate vehicle replacement plans and schedules.• Monitor and report on government-mandated programs.• Complete other related tasks as assigned.
Representative Duties and Knowledge	<p>Technical Knowledge:</p> <ul style="list-style-type: none">• Requires high technical knowledge and independent judgment for repair methods.• Effective practices, methods, tools, equipment, and materials used in maintenance and repair of fire apparatus and equipment.• Heavy equipment hydraulic system operation and maintenance; heavy truck and automotive engines.• Preventive maintenance principles and methods.• Machine shop, sheet metal, blacksmithing, arc and oxyacetylene welding, and automotive electrical work.• Current sources of information on operating, maintenance, and repair problems.• Repair shop accident prevention measures, safety devices, and occupational hazards. <p>Diagnostic and Repair:</p> <ul style="list-style-type: none">• Diagnose, repair, and maintain specialized fire equipment including:<ul style="list-style-type: none">○ Fire pumps and related relief valves, ball valves, primer pumps.○ Power take-offs, electric and hydraulic systems.○ Steering mechanisms, emergency lights, computerized ignition, pneumatic systems.○ Fuel delivery systems, air brakes, suspensions, and transmissions.○ CAFS maintenance and repair.• Inspect and repair electronically controlled devices on vehicles and equipment.• Use electronic and mechanical test equipment for diagnostics. <p>Installation, Inventory, and Maintenance:</p> <ul style="list-style-type: none">• Install, repair, and maintain foam delivery systems, emergency lighting, sirens, and radios.• Install varied electrical and auxiliary equipment onto existing vehicles.• Perform minor repairs, replace inoperative parts, check and adjust brakes, change oil and filters, install batteries, tires, and glass.• Perform physical inventories of shop parts, tools, and equipment.• Maintain fire station emergency generators and compressors.• Maintain fuel delivery island.• Clean and maintain work area in an orderly manner; ensure shop tools are in safe working condition.• Organize and conduct preventive maintenance programs for all fire apparatus and related equipment.• Requisition parts, tools, equipment, and materials for repairs.• Direct and approve purchases of inventory parts, materials, contractual services, new and replacement equipment, and other fleet-related needs.

Representative Duties and Knowledge (cont)	<p>Inspections and Reports:</p> <ul style="list-style-type: none"> • Perform annual inspections and maintenance for all District vehicles. • Conduct acceptance and annual service tests of engines, pumps, and related equipment. • Document and report all work using the Department’s computerized fleet management system. • Maintain records and reports on all Department apparatus, tools, and equipment. <p>Fleet Management and Program Compliance:</p> <ul style="list-style-type: none"> • Review vehicle and equipment needs, draft requirements and specifications for bidding and acquisition. • Maintain liaison with equipment suppliers, inspect bids, recommend acquisitions, and ensure compliance. • Conduct fleet life cycle analysis for fleet replacement scheduling. • Ensure compliance with federal, state, and local mandates, report accurately and timely. • Ensure work is accomplished following established safety practices. <p>Emergency Response:</p> <ul style="list-style-type: none"> • Return to duty for emergency repairs or other District emergencies. • Assist with reports on major accidents. • May be sent to emergencies in other areas for an extended period. <p>Training & Operation:</p> <ul style="list-style-type: none"> • Instruct others on proper equipment operation and maintenance, conduct training classes. • Operate a variety of Department vehicles and standard office equipment.
Skills and Abilities	<ul style="list-style-type: none"> • Use and operation of standard and specialized tools and equipment for gasoline and diesel-powered equipment. • Setting hydraulic pressures to manufacturer specifications. • Various metal working techniques and operations. • Assembling and disassembling equipment and system components. • Understand and follow oral and written policies, procedures, and instructions. • Communicate effectively with others, both orally and in writing, using technical and non-technical language. • Work independently in the absence of supervision. • Perform a wide variety of duties with accuracy and speed under time-sensitive deadlines. • Operate or quickly learn to operate a personal computer using standard and customized software applications appropriate to assigned tasks. • Recognize differences in color to ensure safety requirements in electrical wire repairs.
Minimum Qualifications	<ul style="list-style-type: none"> • Three years of varied, increasingly responsible experience maintaining medium and heavy trucks, or • An equivalent combination of education and experience sufficient to successfully perform the essential duties of the position. • Possession of a valid California driver’s license and a satisfactory driving record. • Possess an appropriate California driver’s license to drive fire apparatus as required by State law with a satisfactory driving record. • Obtain AED and CPR certifications within 6 months of employment. • Must meet the insurability requirements of the District’s insurer. • Pass extensive background investigation and medical exam, including drug testing.
Desired Qualifications	<ul style="list-style-type: none"> • Automotive Service Excellence (ASE) Master Technician Certificate • Automotive Service Excellence (ASE) Truck Technician Certificate

Desired Qualifications (cont)	<ul style="list-style-type: none">• State Fire Marshall Emergency Vehicle Technician I and II.• Associate of Arts or Science degree in any field.
Other Requirements	<p>To be completed within two years of appointment:</p> <ul style="list-style-type: none">• Automotive Service Excellence (ASE) Master Technician Certificate program. After completion, must maintain certification by retesting every 5 years.• Automotive Service Excellence (ASE) Truck Technician Certificate program within two (2) years of appointment. After completion, must maintain certification by retesting every 5 years. <p>To be completed within five years of appointment:</p> <ul style="list-style-type: none">• State Fire Marshal Emergency Vehicle Technician I and II.
Physical Demands and Working Environment	<p>Physical:</p> <ul style="list-style-type: none">• Work indoors in an office setting and outdoors in extreme weather conditions.• Continuous sitting, neck flexion (upward/downward), side-to-side neck turning, twisting and bending at the waist, reaching below the shoulders, and occasionally lift up to 20 pounds.• Frequent sitting, standing, walking (including uneven ground), reaching at and above shoulder level, power grasping, pushing/pulling objects and equipment, fine finger dexterity, simple grasping, and repetitive hand use for equipment controls, keyboard, and office equipment; neck flexion, side to side neck turning, twisting and bending at the waist, reaching below the shoulder.• Occasional running, crawling, kneeling, climbing, balancing, squatting, lifting, and carrying objects over 100 lbs. with or without assistance.• Operate foot controls or engage in repetitive foot motion; may work at substantial heights. <p>Environmental:</p> <ul style="list-style-type: none">• Work indoors and outdoors with exposure to extreme heat, cold, humidity, and temperature swings.• Exposure to excessive noise from emergency equipment; noise levels may be very loud during emergency calls and incidents.• Exposure to dust, gases, chemicals, and smoke.• Work around heavy equipment with moving mechanical parts; exposure to vibration from equipment and vehicles.• Wear appropriate personal protective equipment, including goggles, ear plugs, face protectors, respirator, and other auditory protection.
